11 Publication number:

0 281 496 A3

(12)

EUROPEAN PATENT APPLICATION

21 Application number: 88630034.2

(5) Int. Cl.4: C08L 67/02 , C08G 63/26 , C08J 3/00

2 Date of filing: 22.02.88

3 Priority: 05.03.87 US 22296

43 Date of publication of application: 07.09.88 Bulletin 88/36

Designated Contracting States:
DE ES FR GB IT NL SE

Date of deferred publication of the search report: 31.01.90 Bulletin 90/05

- Applicant: THE GOODYEAR TIRE & RUBBER COMPANY
 1144 East Market Street
 Akron, Ohio 44316-0001(US)
- 2 Inventor: Ginnings, Paul Roll 668 Highland Avenue Wadsworth Ohio 44281(US)
- Representative: Weyland, J.J. Pierre Goodyear Technical Center-Luxembourg L-7750 Colmar-Berg(LU)
- Preparation of thermoplastic resin composition by solid state polymerization.
- This invention relates to a process for preparing a thermoplastic resin composition through a solid state polymerization process. The thermoplastic resin composition made in accordance with this invention is particularly suitable for use in thermoforming thin walled articles. The process of this invention specifically comprises (1) melt blending a polyethylene terephthalate prepolymer with at least one liquid crystalline polymer to produce a polyethylene terephthalate/liquid crystalline polymer blend; and (2) solid state polymerizing said polyethylene terephthalate/liquid crystalline polymer blend at a temperature within the range of about 195°C to about 255°C for a period of at least about 1 hour to produce a thermoplastic resin composition. The subject invention also deals with thermoforming such thermoplastic resin compositions into articles, such as food trays, having a crystallinity within the range as food trays, naving a crys of about 10% to about 40%.

EP 0 281



EUROPEAN SEARCH REPORT

EP 88 63 0034

	Citation of document with in	DERED TO BE RELEVA	Relevant	CLASSIFICATION OF THE
Category	of relevant pas	sages	to claim	APPLICATION (Int. Cl. 4)
X	US-A-4 408 022 (D. * claims 1-8; column column 6, line 61 - column 12,13, examplines 65,66 *	column 7, line 23;	1,3,6	C 08 L 67/02 C 08 G 63/26 C 08 J 3/00
A	EP-A-0 041 327 (IMI INDUSTRIES LTD.) * claims 1,2,5,6; pages 7,8, example 4 32-36 *	age 3, lines 27-34;	1	
A	US-A-3 546 320 (I. * claims 1,5,6,10; o	N. DULING et al.) column 6, example 3	1	
X	EP-A-0 154 065 (CE * claims 1,5,6,10; example 3 *	LANESE CORP.) page 33, comperative	1	
				TECHNICAL FIELDS SEARCHED (Int. Cl.4)
				C 08 G
				C 08 L
	The present search report has b	•		
BERLIN		Date of completion of the searc 23-10-1989		Examiner IGTLAENDER R O J
X: pa Y: pa	CATEGORY OF CITED DOCUME rticularly relevant if taken alone rticularly relevant if combined with an cument of the same category	NTS T: theory or p. E: earlier pate after the fil other D: document of L: document	rinciple underlying int document, but p ling date cited in the applicat ited for other reaso	the invention ublished on, or ion ns
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